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1. Document ID: JP 10046075 A

L3: Entry 1 of 1

File: DWPI

Feb 17, 1998

DERWENT-ACC-NO: 1998-189514

DERWENT-WEEK: 199817

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TITLE: Aqueous ink jet recording ink - contains lower alcohol/propylene oxide addition polymer in an ink containing coloured resin particle, etc., having good penetrating property and re-dissolving property

PRIORITY-DATA: 1996JP-0131806 (May 27, 1996), 1995JP-0312373 (November 30, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 10046075 A</u>	February 17, 1998		007	C09D011/00

INT-CL (IPC): C09 D 11/00

ABSTRACTED-PUB-NO: JP 10046075A

BASIC-ABSTRACT:

An aq. ink jet recording ink (P) contains lower alcohol/propylene oxide addn. polymer (A) in an ink (B), which contains coloured resin particle (B1) including colouring material (B1a) inside the particle dispersed in aq. medium (B2) by means of film forming resin (B3).

ADVANTAGE - (P) hardly causes foaming and bleeding on the recording substrate and has good penetrating property and good redissolving property.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D.
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1. Document ID: JP 3516039 B2, JP 10046074 A, US 5879439 A

L4: Entry 1 of 1

File: DWPI

Apr 5, 2004

DERWENT-ACC-NO: 1998-189513

DERWENT-WEEK: 200424

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TITLE: Recording ink=jet printers - comprises water-dispersible or water-soluble colouring material, water and water-soluble organic solvent as chief components

INVENTOR: IGARASHI, M; KOJIMA, A ; KONISHI, A ; KOYANO, M ; MOCHIZUKI, H ; NAGAI, K ; TANAKA, I ; TSUYUKI, T

PRIORITY-DATA: 1996JP-0219339 (August 1, 1996), 1996JP-0227600 (August 8, 1996), 1997JP-0044792 (February 13, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 3516039 B2</u>	April 5, 2004		015	C09D011/00
<u>JP 10046074 A</u>	February 17, 1998		015	C09D011/00
<u>US 5879439 A</u>	March 9, 1999		000	C09D011/02

INT-CL (IPC): B41 J 2/01; B41 M 5/00; C09 D 11/00; C09 D 11/02

ABSTRACTED-PUB-NO: JP 10046074A

BASIC-ABSTRACT:

A recording ink (P) contains water-dispersible or water-soluble colouring material (A), water (B), and water-soluble organic solvent (C) as chief components, and (A) contains at the same time pigment (A1) and polymeric dye (A2) having an average molecular wt. of 5000-150000, and dispersant (A3), that is polymer compound (A3-a) having both hydrophilic and hydrophobic sections in a mol. and/or surfactant (A3-b) containing alkyl gp. having a carbon number at least 5.

Also claimed is a recording method (M), in which recording is conducted by discharging (P) as fine droplets by action of heat or mechanical energy to form picture images having resolution exceeding 10 dots/mm x 10 dots/mm by adhering (P) of 2.0-20 g/m² on a recording paper having a Steckigt sizing degree of at least 3 sec.

USE - (P) is suitable for not only ink jet printer but also writing utensil, recorder, and pen plotter.

ADVANTAGE - (P) and (M) can provide clear picture images without bleeding and excellent in colour tone and colour reproducibility.

ABSTRACTED-PUB-NO:

US 5879439A EQUIVALENT-ABSTRACTS:

A recording ink comprises a colouring material dispersible or dissolvable in water, water and a water soluble organic solvent as the main component. The colouring material comprises a pigment having an HLB value of 11-20, a polymer dye having an average mol.wt. of 5,000-150,000 and carboxylic or sulphonic in the repeating unit and a polymeric compound having a hydrophilic part and hydrophobic part in the molecule at the same time and/or a surfactant having at least 6C alkyl as a dispersant.

Also claimed is a method for ink jet recording comprising adding the ink at a weight of 2.0-20 g/m² on a recording medium having Steckigt size of at least 3 sec. to form a picture image of dissolution of 10 dts/mm multiply 10 dts/mm.

ADVANTAGE - The ink gives a fresh picture image with water resistance and light fastness without bleeding, and exhibits storing stability and less plugging discharging nozzle.

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1. Document ID: JP 08333532 A

L6: Entry 1 of 1

File: DWPI

Dec 17, 1996

DERWENT-ACC-NO: 1997-095584

DERWENT-WEEK: 199709

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TITLE: Aq. ink for ink-jet recording devices, giving good quality recording - comprises colourant, liq. medium and heat reversibly phase separable polymer and provides enhanced image

PRIORITY-DATA: 1995JP-0161524 (June 6, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 08333532 A</u>	December 17, 1996		016	C09D011/00

INT-CL (IPC): B41 J 2/01; B41 M 5/00; C09 D 11/00

ABSTRACTED-PUB-NO: JP 08333532A

BASIC-ABSTRACT:

The aq. ink (P1) is a liq. compsn. (A) contg. colouring material (A1) and liq. medium (A2) and contains heat reversibly phase separable polymer (B), which causes phase sepn. from the aq. soln. at a temp. exceeding the transition temp. Ts and surfactant (C), which has a clouding point Tc. Also claimed is an ink jet recording method (M), in which (P1) is discharged as fine droplets from an orifice of a recording head according to recording signals. Also claimed are ink jet recording devices such as a recording unit (P2), which has been fitted with ink container holding (P1) and recording head, pref. fitted with a temp. controlling mechanism for discharging (P1) and an ink jet recording appts. (P3), which has been fitted with (P2) and (P1) has been used.

USE - (P1), (M), (P2) and (P3) are suitable for ink jet recording.

ADVANTAGE - (P1), (M), (P2) and (P3) gives high quality recording with high image concn. and without feathering and/or bleeding.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Detailed	Abstracted	Claims	KMC	Drawn
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1. Document ID: DE 69627601 E, EP 767225 A2, JP 09176533 A, JP 09208870 A, EP 767225 A3, US 6114411 A, EP 767225 B1

L7: Entry 1 of 1

File: DWPI

May 28, 2003

DERWENT-ACC-NO: 1997-205412.

DERWENT-WEEK: 200343

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TITLE: Ink compsn. useful for ink jet recording for high re-dispersibility - comprises pigment, resin dispersant, thermoplastic resin emulsion and water, with indoline deriv., useful for fibre recording medium

INVENTOR: FUJISAWA, K; KANBAYASHI, K ; KOMATSU, H ; NAKAMURA, H ; OZAWA, Y ; TSUKAHARA, M ; YAMAZAKI, H

PRIORITY-DATA: 1996JP-0017841 (February 2, 1996), 1995JP-0260588 (October 6, 1995), 1995JP-0278155 (October 25, 1995), 1995JP-0278157 (October 25, 1995), 1995JP-0278158 (October 25, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 69627601 E</u>	May 28, 2003		000	C09D011/00
<u>EP 767225 A2</u>	April 9, 1997	E	033	C09D011/00
<u>JP 09176533 A</u>	July 8, 1997		022	C09D011/00
<u>JP 09208870 A</u>	August 12, 1997		007	C09D011/00
<u>EP 767225 A3</u>	October 1, 1997		000	C09D011/00
<u>US 6114411 A</u>	September 5, 2000		000	C09D005/00
<u>EP 767225 B1</u>	April 23, 2003	E	000	C09D011/00

INT-CL (IPC): B41 J 2/01; B41 M 5/00; C09 D 5/00; C09 D 11/00; C09 D 11/02; C09 D 11/10

ABSTRACTED-PUB-NO: EP 767225A

BASIC-ABSTRACT:

An ink compsn. for ink jet recording comprises:

- (i) a pigment;
- (ii) a resin dispersant;
- (iii) a thermoplastic resin emulsion; and
- (iv) water.

The wt. ratio of the pigment to the resin dispersant is 20:1 - 5:2.

Also claimed is an ink jet recording process.

USE - An ink compsn. for (colour) ink jet recording is provided.

ADVANTAGE - The ink compsn. has improved redispersibility and is less susceptible to bleeding of printed ink and shows no change of physical properties and jet-ability and undergoes no pptn. of solid content even after prolonged storage.

ABSTRACTED-PUB-NO:

US 6114411A EQUIVALENT-ABSTRACTS:

An ink compsn. for ink jet recording comprises:

- (i) a pigment;
- (ii) a resin dispersant;
- (iii) a thermoplastic resin emulsion; and
- (iv) water.

The wt. ratio of the pigment to the resin dispersant is 20:1 - 5:2.

Also claimed is an ink jet recording process.

USE - An ink compsn. for (colour) ink jet recording is provided.

ADVANTAGE - The ink compsn. has improved redispersibility and is less susceptible to bleeding of printed ink and shows no change of physical properties and jet-ability and undergoes no pptn. of solid content even after prolonged storage.

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1. Document ID: JP 09237355 A

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File: DWPI

Sep 9, 1997

DERWENT-ACC-NO: 1997-500127

DERWENT-WEEK: 199746

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TITLE: Image synthesiser for scanner - has operation unit which estimates viewpoint information from actually photographed image

PRIORITY-DATA: 1996JP-0042955 (February 29, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 09237355 A</u>	September 9, 1997		011	G06T017/00

INT-CL (IPC): G06 T 1/00; G06 T 17/00

ABSTRACTED-PUB-NO: JP 09237355A

BASIC-ABSTRACT:

The image synthesiser has an operation unit (22) which estimates a viewpoint information from an actually photographed image. A 3D spatial information of the photographed image is estimated from this positional information.

Based on the 3D information, a CG image generation unit (24) forms a CG image and this CG image is transformed to perspective image. A synthesising unit (26) synthesises the CG image and the photographed image.

ADVANTAGE - Produces synthetic image without sense of incongruity.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Generate	Attachments	Claims	KWIC	Drawn
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1. Document ID: JP 11314029 A

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File: DWPI

Nov 16, 1999

DERWENT-ACC-NO: 2000-057579

DERWENT-WEEK: 200012

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TITLE: Surfactant for ink-jet printing ink - comprises an organic compound having an ethylene oxide repeating unit and a propylene oxide repeating unit, and boric acid, borate, phosphoric acid or phosphate group

PRIORITY-DATA: 1998JP-0123761 (May 6, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 11314029 A</u>	November 16, 1999		011	B01F017/42

INT-CL (IPC): B01 F 17/38; B01 F 17/42; B41 J 2/01; B41 M 5/00; C08 G 65/28; C09 D 11/00

ABSTRACTED-PUB-NO: JP 11314029A

BASIC-ABSTRACT:

NOVELTY - A new water-soluble surfactant comprises an organic compound having an ethylene oxide repeating unit and a propylene oxide repeating unit, and boric acid, borate, phosphoric acid or phosphate group.

DETAILED DESCRIPTION - The organic compound has formula RO-(EO)_n-(PO)_m-(E) (I).

In (I), R = alkyl or alkylphenyl gp; (EO)_n = ethylene oxide repeating unit; n = 4-10; (PO)_m = propylene oxide repeating unit; m = 1-3; (E) = boric acid, borate, phosphoric acid, or phosphate group

An INDEPENDENT CLAIM is also included for an ink for ink-jet printers, which contains: (a) a water-soluble colour chemical; (b) water; (c) 2,4,7,9-tetramethyl-5-decene-4,7-diol (TDD) and/or 3,6-dimethyl-4-octene-3,6-diol (DOD); and (d) a surfactant as above. The ratio of (c)/(d) is 0.5-2.

USE - For ink-jet printers having ink heads made of electrostrictive strain elements.

ADVANTAGE - The ink hardly runs on recycled paper.

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